

WHAT IS CLAIMED IS:

1. A numeral lock structure comprising:

5           a lock main body in which a lock core is arranged, the lock core being controlled by multiple numeral wheels to lock or unlock;

10           a lock hook having a middle bent section and a base end and an extending free end, the base end being pivotally inserted in one end of the lock main body, whereby the lock hook can be directly freely rotated about the base end without axially moving; and

15           a displaceable button disposed on the lock main body in a position where the free end of the lock hook is turned in or out, whereby in accordance with the locked state or unlocked state of the lock core, the displaceable button is synchronously positioned in a not displaceable state or a displaceable state,  
20           the displaceable button being formed with a notch corresponding to the free end of the lock hook for restricting the same, whereby when the lock core is locked, the displaceable button is synchronously restricted from displacing to keep locking the lock hook, while when the lock core is unlocked, the displaceable  
25           button is synchronously in a displaceable state and can be displaced, permitting the free end of the lock hook to be turned outward and detach out from the notch for unlocking.

2. The numeral lock structure as claimed in claim 1, wherein a linking member is connected between the displaceable button and the lock core for synchronously drivingly connecting the displaceable button and the lock core.

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3. The numeral lock structure as claimed in claim 2, wherein the linking member is formed with a central through shaft hole, a circumference of top side of the shaft hole being formed with a recessed section, a pressing section extending from a lateral edge of the linking member toward the lock core for pressing upper side of the lock core.

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4. The numeral lock structure as claimed in claim 2, wherein the displaceable button is substantially a rotary roller, one end of the displaceable button being formed with a notch tapered from one side to the center, a shaft section projecting from the other end of the displaceable button into the lock main body, the shaft section being inserted in the lock main body and fitted through the shaft hole of the linking member, whereby the displaceable button is rotatable about the shaft section, an acute projecting section being formed at an adjoining section between the shaft section and the displaceable button, whereby when the displaceable button is rotated, the acute projecting section of the displaceable button slides into or out of the recessed section of the linking member and when the acute projecting section slides out of the recessed section, the acute projecting section gradually presses down the linking member for unlocking.

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5. The numeral lock structure as claimed in claim 3, wherein the displaceable button is substantially a rotary roller, one end of the displaceable button being formed with a notch tapered from one side to the center, a shaft section projecting from the other end of the displaceable button into the lock main body, the shaft section being inserted in the lock main body and fitted through the shaft hole of the linking member, whereby the displaceable button is rotatable about the shaft section, an acute projecting section being formed at an adjoining section between the shaft section and the displaceable button, whereby when the displaceable button is rotated, the acute projecting section of the displaceable button slides into or out of the recessed section of the linking member and when the acute projecting section slides out of the recessed section, the acute projecting section gradually presses down the linking member for unlocking.
6. The numeral lock structure as claimed in claim 1, wherein two sides of the recessed section of the linking member are formed with a lateral slope which upward obliquely extend, whereby when turning the displaceable button, the acute projecting section of the displaceable button laterally slides.
7. The numeral lock structure as claimed in claim 4, wherein two sides of the acute projecting section are formed with lateral projecting slopes which upward obliquely extend.

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8. The numeral lock structure as claimed in claim 5, wherein two sides of the acute projecting section are formed with lateral projecting slopes which upward obliquely extend.

5 9. The numeral lock structure as claimed in claim 4, wherein a resilient member is disposed between the shaft section of the displaceable button and the linking member to resiliently abut against the linking member, whereby the acute projecting section of the displaceable button can be tightly fitted in the recessed  
10 section of the linking member.

10. The numeral lock structure as claimed in claim 5, wherein a resilient member is disposed between the shaft section of the displaceable button and the linking member to resiliently abut  
15 against the linking member, whereby the acute projecting section of the displaceable button can be tightly fitted in the recessed section of the linking member.

11. The numeral lock structure as claimed in claim 1, wherein the  
20 displaceable button can be pressed into the lock main body, one end of the displaceable button extending into the lock main body to connect with the lock core, the other end of the displaceable button being formed with a lock hole, whereby in a locked state, the free end of the lock hook is fitted and locked in the lock  
25 hole and when the numeral wheels are turned to the unlocking number, the lock core is released from the restriction and the displaceable button can be directly pressed to detach the free

end of the lock hook out of the lock hole of the displaceable button for unlocking.

- 5 12. The numeral lock structure as claimed in claim 11, wherein a resilient member resiliently abuts against inner end of the displaceable button to force the displaceable button to outer side of the lock main body in normal state.